

Title (en)
TRANSPORT SYSTEM FOR NANOPARTICLES AND METHOD FOR THE OPERATION THEREOF

Title (de)
TRANSPORTSYSTEM FÜR NANOPARTIKEL UND VERFAHREN ZU DESSEN BETRIEB

Title (fr)
SYSTEME DE TRANSPORT DE NANOPARTICULES ET SON MODE DE FONCTIONNEMENT

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Application
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Abstract (en)
[origin: WO2005123978A1] The invention relates to a transport system for dry nanoparticles (18b). According to the invention, the nanoparticles (18b) are magnetised or electrically charged for transportation, a magnetic or electrical field is produced by means of a field generator (20a, 20) in the transport channel, and the nanoparticles (18b) migrate through the transport channel (12). The nanoparticles can be discharged through a discharge opening (13) which enables dosing to take place. In order to agglomerate the nanoparticles (18b) or to prevent attachment onto the inner wall (26), a coating (27) of the wall can be offset in oscillations by means of piezo electric actuators (28), said oscillations being transferred to the nanoparticles (18b). The dry nanoparticles can be handled in an advantageous manner due to the transport system, such that said dry nanoparticles need not be treated as a suspension.

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